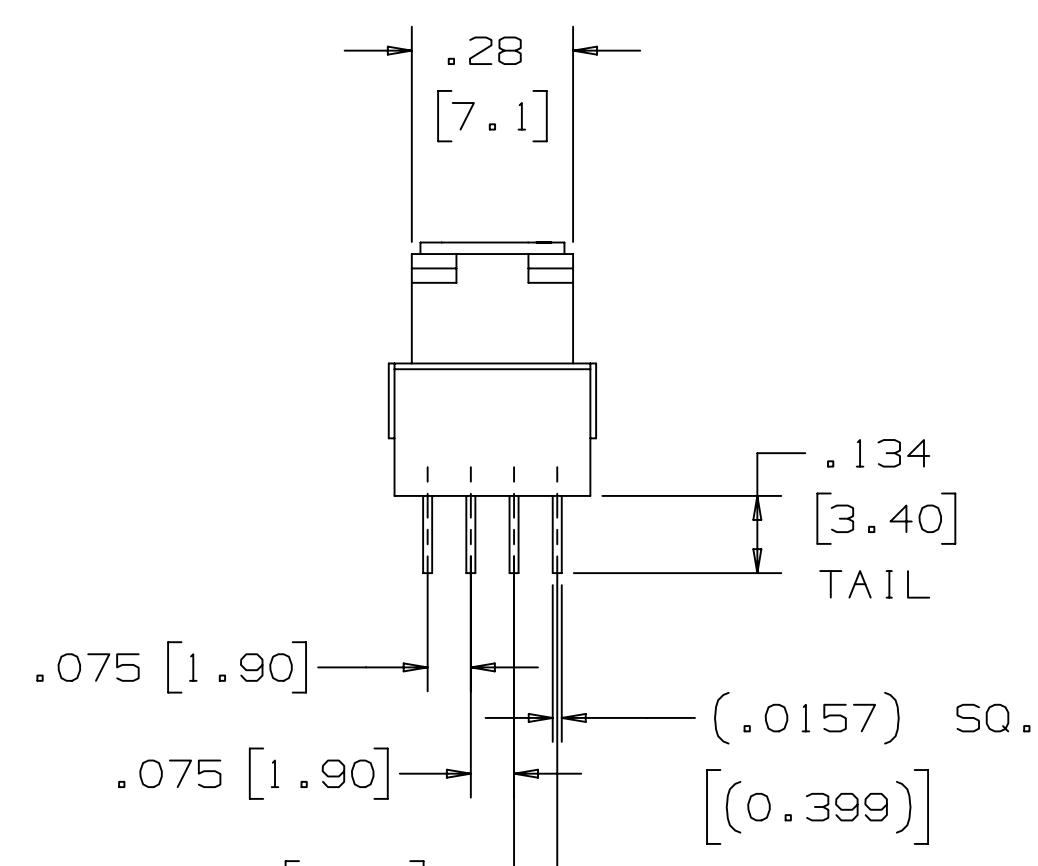
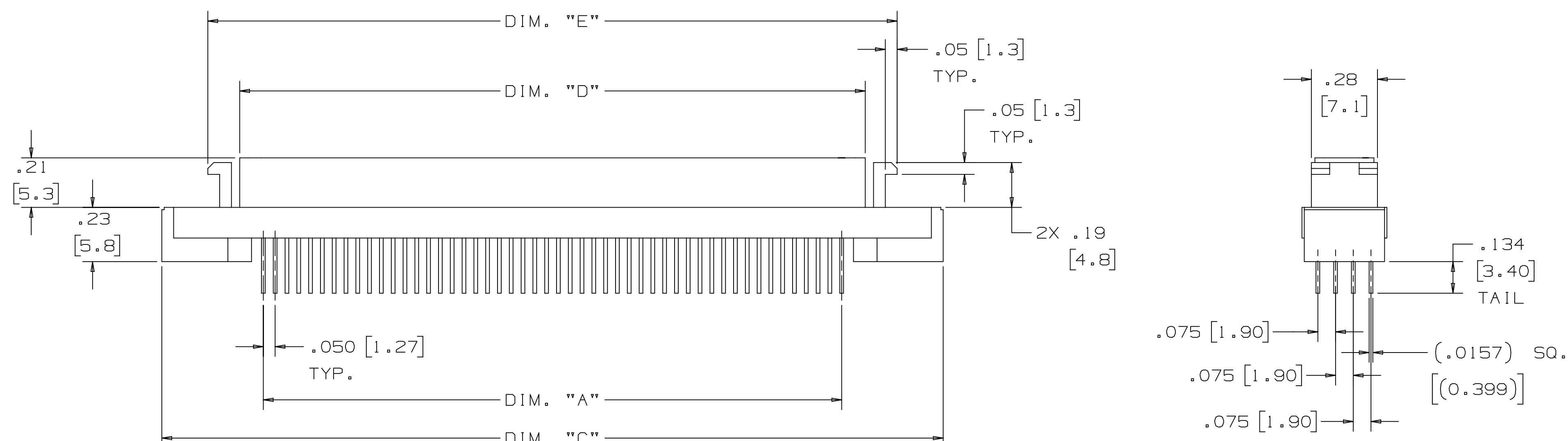
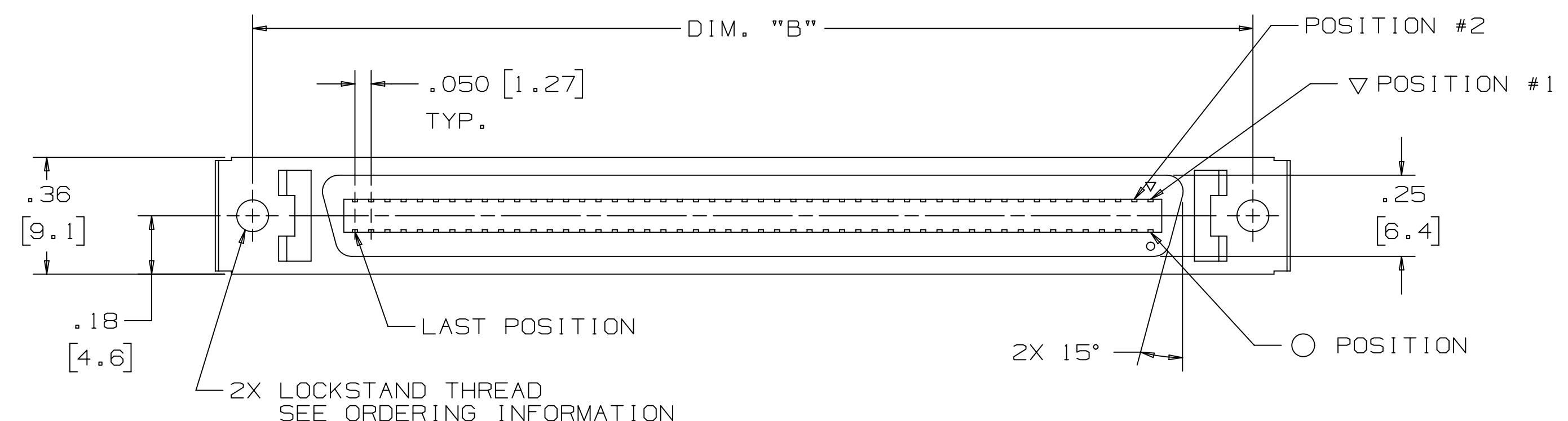


3M™ MINI D RIBBON (MDR) CONNECTORS, 102 SERIES
.050" BOARDMOUNT THROUHT-HOLE VERTICAL RECEPTACLE - SHIELDED

TABLE 1					
CONTACT QTY.	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"
14	.300 [7.62]	.93 [23.6]	1.16 [29.5]	.50 [12.6]	.77 [19.5]
20	.450 [11.43]	1.08 [27.5]	1.31 [33.4]	.65 [16.4]	.92 [23.4]
26	.600 [15.24]	1.23 [31.3]	1.46 [37.2]	.80 [20.2]	1.07 [27.2]
36	.850 [21.59]	1.48 [37.6]	1.71 [43.5]	1.05 [26.6]	1.32 [33.5]
40	.950 [24.13]	1.58 [40.2]	1.81 [46.1]	1.15 [29.1]	1.42 [36.1]
50	1.200 [30.48]	1.83 [46.5]	3.06 [52.4]	1.40 [35.5]	1.67 [42.4]
68	1.650 [41.91]	2.28 [57.9]	2.51 [63.8]	1.85 [46.9]	2.12 [53.8]
80	1.950 [49.53]	2.58 [65.6]	2.81 [71.5]	2.15 [54.5]	2.42 [61.5]
100	2.540 [62.23]	3.08 [78.3]	3.31 [84.2]	2.65 [67.2]	2.92 [74.2]



REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
C	105842	JUL 13, 2022 REDRAWN REVISE TEMP RATING	JNC	FJR
B	16859	NOV 26, 2022 REMOVE NON-ROHS	BAC	ARM
A	16859	MAR 05, 2007 PRODUCTION RELEASE	BAC	DFC
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
PROJ: CASTIGLIONE		JUL 13, 2022	MFG	DATE
CNC		DATE	APPV	JUL 13, 2022
© 3M COPYRIGHT 2022 3M Center St. Paul, MN 55144 This document and the information it contains are confidential and may be used or disclosed only with the express written permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.				
MDR CONN, SHIELDED, .050" BMT THRU-HOLE VERT RECEPTACLE				
ASME Y14.5 - 2018				
MAX SURFACE ROUGHNESS DETAILED SURFACES MARKED ONLY				
ANGLES				
CAGE SIZE DRAWING NO. D 78-5100-0427-4 REV. C				
DET. LISTS YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> SHT 2 OF 4				

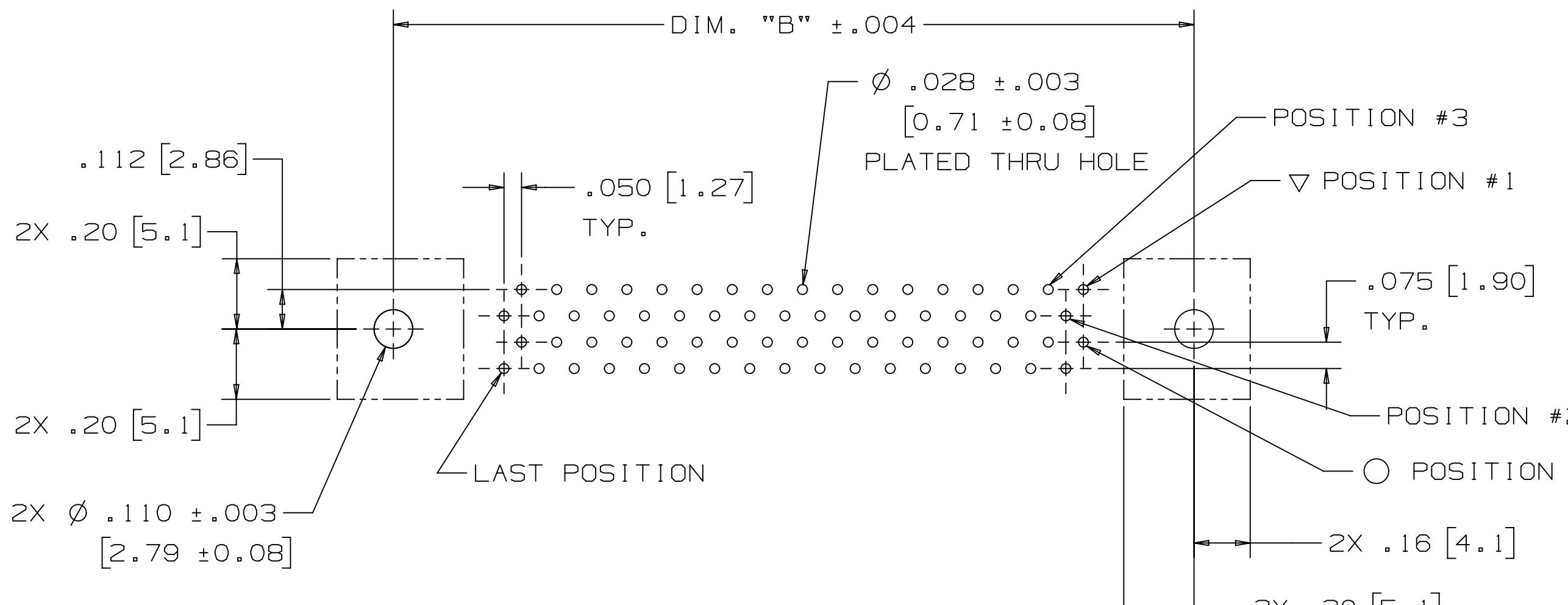
3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3M.com/interconnect>

3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

3M™ MINI D RIBBON (MDR) CONNECTORS,
.050" BOARDMOUNT THROUH-HOLE VERTICAL RECEPTACLE - SHIELDED

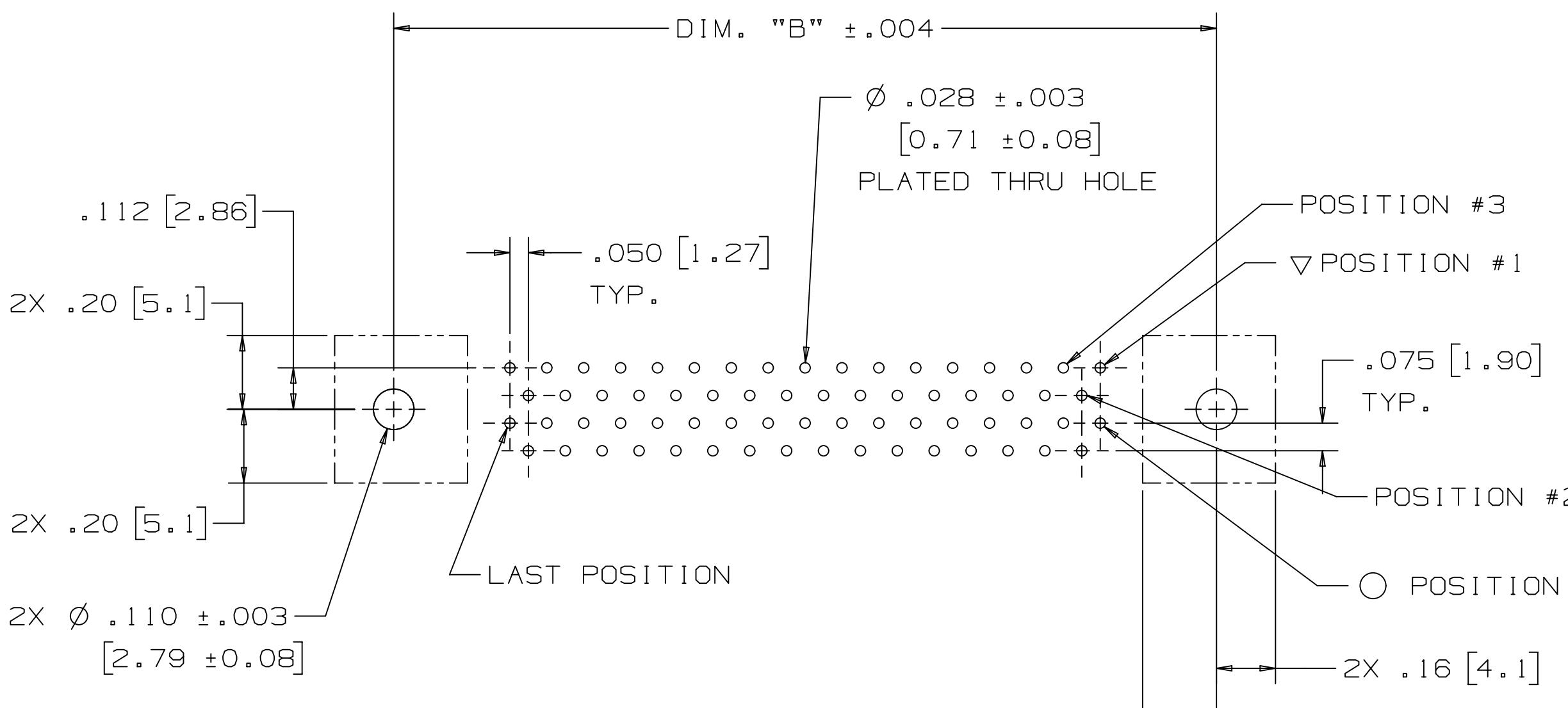
102 SERIES

TABLE 2		
CONTACT QTY.	DIM. "A"	DIM. "B"
20	.450 [11.43]	1.081 [27.45]
36	.850 [21.59]	1.481 [37.61]
40	.950 [24.13]	1.581 [40.15]
68	1.650 [41.91]	2.281 [57.93]
80	1.950 [49.53]	2.581 [65.55]
100	2.450 [62.23]	3.081 [78.25]



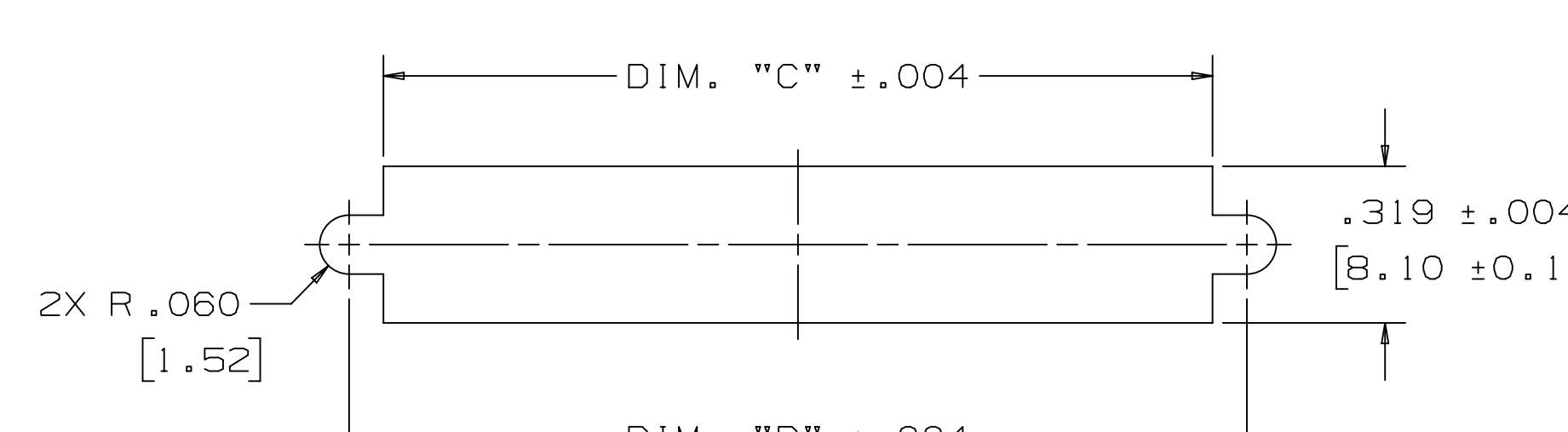
RECOMMENDED BOARD LAYOUT
(VIEWED FROM CONNECTOR SIDE)
POSITIONS ONLY: 20, 36, 40, 68, 80 AND 100
SEE TABLE 2

TABLE 3		
CONTACT QTY.	DIM. "A"	DIM. "B"
14	.300 [7.62]	.931 [23.64]
26	.600 [15.24]	1.231 [31.26]
50	1.200 [30.48]	1.831 [46.50]



RECOMMENDED BOARD LAYOUT
(VIEWED FROM CONNECTOR SIDE)
POSITIONS ONLY: 14, 26 AND 50
SEE TABLE 3

TABLE 4		
CONTACT QTY.	DIM. "C"	DIM. "D"
14	.78 [20.0]	.93 [23.64]
20	.94 [23.8]	1.08 [27.45]
26	1.09 [27.6]	1.23 [31.26]
36	1.33 [33.9]	1.48 [37.61]
40	1.44 [36.5]	1.58 [40.15]
50	1.69 [42.8]	1.83 [46.50]
68	2.13 [54.2]	2.28 [57.93]
80	2.44 [61.9]	2.58 [65.55]
100	2.94 [74.6]	3.08 [78.25]



RECOMMENDED PANEL CUT-OUT
NOTE: PANEL THICKNESS: .079 [2.00] MAX.
SEE TABLE 4

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3M.com/interconnect>

3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

NOTES
1. RECOMMENDED PC BOARD THICKNESS
OF .062".

C	105842	JUL 13, 2022	JNC	FJR
B	16859	NOV 26, 2022	BAC	ARM
A	16859	MAR 05, 2007	BAC	DFC
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
PROJ	CASTIGLIONE	DATE JUL 13, 2022	MFG	DATE
CHKD	APPROVED F. RODRIGUEZ			JUL 13, 2022
© 3M COPYRIGHT 2022 3M Center St. Paul, MN 55144 This document and the information it contains are confidential and may not be distributed outside the 3M organization or used or disclosed other than for 3M authorized purposes. All rights reserved.				
MDR CONN, SHIELDED, 050" BMT THRU-HOLE VERT RECEPTACLE DRAWING NO. D 78-5100-0427-4 REV. C MODEL 102 DET. LISTS YES NO SHT 3 OF 4				

3M™ MINI D RIBBON (MDR) CONNECTORS, 102 SERIES

0.062" BOARDMOUNT THROUGH-HOLE VERTICAL RECEPTACLE SLEEVES

.050" BOARDMOUNT THROUGHT-HOLE VERTICAL RECEPTACLE - SHIELDED

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond 3M's control and uniquely within user's control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

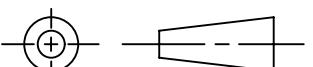
Warranty, Limited Remedy, and Disclaimer: Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OR TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

3M Company
Electronics Materials Solutions Division
13011 McCallen Pass, Bldg. C
Austin, TX 78753-5380
1-800-225-5373
www.3M.com/interconnect

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3M.com/interconnect>

3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

DESIGN REFERENCE		NEXT ASSEMBLY		C	105842	JUL 13, 2022 REDRAWN REVISE TEMP RATING	JNC	FJR
				B	16859	NOV 26, 2022 REMOVE NON-ROHS	BAC	ARM
				A	16859	MAR 05, 2007 PRODUCTION RELEASE	BAC	DFC
		REV	ECO	ISSUE DATE AND DESCRIPTION			DRFT	CHKD
ACCESS CODES				DRFT	CASTIGLIONE	DATE JUL 13, 2022	MFG	DATE
				CHKD		DATE	APPVL F. RODRIGUEZ	DATE JUL 13, 2022
DIVISION		DIVISION CODE emsd		3M Center St. Paul, MN 55144		© 3M COPYRIGHT 2022 This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.		
DO NOT SCALE DRAWING	SCALE <u>4</u> 1	TOLERANCES EXCEPT AS NOTED		INCHES		TITLE MDR CONN, SHIELDED, 050 ^{vv} BMT THRU-HOLE VERT RECEPTACLE		
				.0 ± .1 .00 ± .01 .000 ± .005 .0000 ± .0002				
THIRD ANGLE PROJECTION				MILLIMETERS				
INTERPRET PER ASME Y14.5 - 2018				0 ± .0 ± .00 ± .000 ±		CAGE NUMBER D SIZE DRAWING NO. D 78-5100-0427-4 REV. C		
MAX SURFACE ROUGHNESS						MODEL 102 DET. LISTS <input type="checkbox"/> YES <input checked="" type="checkbox"/> No SHT 4 OF 4		
<input type="checkbox"/> ALL SURFACES								
<input type="checkbox"/> MARKED ONLY								
ANGLES								